
CDF QCD Meeting

April 18, 2003

CDF Theater 8:30 – 11 am

Agenda

① Jay & Mario News and Announcements (10')

Run 2

② Rick Field Underlying Event Studies in Run 2 (BLESSING) (45')

③ Koji Terashi Diffractive Dijet Production – Update (30')

④ Rob/Giuseppe Jet Subgroup Report (15')

⑤ Ben Cooper $W + n$ Jets Studies (20')

Next QCD Meeting: Friday, May 2

Upcoming QCD Conference Talks

- **DIS 2003** St. Petersburg, Russia, April 23–27
 Jet and Multijet Cross Sections **Speaker: Anwar Bhatti**
 Diffractive Physics at CDF **Speaker: Koji Terashi**
 Underlying Event **Speaker: Stefano Lami**
- **CIPANP** New York, NY, May 19–24
 Diffraction Results from the Tevatron **Speaker: Dino Goulianos**
 QCD Results from the Tevatron **Speaker: Christina Mesropian**
- **PLANCK 03** Madrid, Spain, May 26–31
 Recent CDF Results **Speaker: Mario Martinez-Perez**
- **QCD@Work 2003** Conversano, Italy, June 14–18
 Hadron Physics at CDF **Speaker: Andrey Korytov**
- **EPS 2003** Aachen, Germany, July 17–23 **⇐ First Summer Conference!**
 *** Abstracts due May 4 ***
- **Lepton-Photon 2003** Fermilab, August 11–16 **⇐ BIG Conference!**

Upcoming Workshops and Conferences

- CDF/D0/Theory MC / Matrix Element Tuning Workshop
Fermilab, One-West, April 29–30
See <http://cepa.fnal.gov/CPD/MCTuning/>
- LHC 2003 Physics and Detectors Workshop
Fermilab, May 1–3
See <http://conferences.fnal.gov/lhc2003/index.html>
- CTEQ/IFAE Summer School on QCD Analysis and Phenomenology
Catalonia, Spain, May 22–30 *** Still Accepting Applications ***
See <http://www.phys.psu.edu/~cteq/schools/summer03/>
- Les Houches Workshop: Physics at TeV Colliders
Les Houches, France, May 26–June 6 (Registration Closed)
See <http://wwwlapp.in2p3.fr/conferences/LesHouches/Houches2003/>
- Small- x and Diffractive Physics
Fermilab, Sep 17–20
More information soon...
- Workshop on Collider Physics
Santa Barbara, Jan 12, 2004 – Apr 2, 2004 *** Apply by April 30 ***
See <http://www.itp.ucsb.edu/activities/collide04/?id=274>

EPS Abstracts

EPS 2003 Aachen, Germany, July 17–23

We need to submit abstracts by May 4.

The conference organizers will group these topics into talks.

Please send abstracts to Mario and me by **April 30**.

- Jet Evolution and the Underlying Event in Run 2 at CDF (Rick F) – Done
- Results on Diffraction from CDF Run 2 Data (Dino G, Michele G) – Done
- Diphoton Cross Section (Yanwen L)
- Dijet Mass Distribution as a QCD test (Robert H)
- Dijet Angular Distribution (Lee P, Yeongdae S)
- Three-Jet Cross Section in Run 1 (Sally S, Igor G)
- Jet Fragmentation Studies – Quark/Gluon Jets (Andrey K, Sasha P)
- Jet Shapes and Energy Flow (Mario M-P)
- Inclusive Jet Cross Section (Gene F, Frank C)

QCD Plans

We welcome feedback on these plans for QCD analyses:

- We would like to continue the Run 2 analyses that were already blessed for winter, and we will try hard to present updated results with significantly better systematic uncertainties.

However, we realize that there are major issues (understanding of the calorimeter, simulation, response functions, jet corrections...) that probably will need months to be addressed.

- It is very important that we also present new analyses. There, we could still be conservative in computing the systematic errors.

We must continue to press swiftly forward — everyone's involvement is crucial!

It is important to make a strong showing at EPS in July, and this will set us up for Lepton-Photon in August.

Today's Meetings

Joint Physics Meeting, CDF Theater, 11:30 – 1:00 pm

- ① Status and Plans for ETF Working Group
- ② Status and Plans for the Muon Reco Group
- ③ Status and Plans for the Beamlines and Primary Vertex Group

Cigdem Issever
Victoria Martin
Wolfgang Wagner

Paper Seminar **TODAY**, CDF Theater, 1:00 pm:

“Search for Pair Production of Scalar Top Quarks in R-parity
Violating Decay Modes in $p\bar{p}$ Collisions”

Min-Jeong Kim